

### **Abstract of the Disclosure**

An edge router in a packet network has a processor resource for  
5 processing events, at least one scheduler managing all events for processing  
by the processor resource, at least one ready list, and individual event  
pipelines dedicated to individual ones of BGP peers. Events received for  
processing are posted in their associated event pipelines according to the  
source of the events, pipelines having events to be processed insert a flag in  
10 the ready list and the scheduler repetitively scans the ready list sequentially,  
and releases events to the processor resource with preset limitation per  
pipeline.